WHAT IS CLAIMED IS:

- 1. A method of increasing the yield of a biologically active protein from a selected precursor polypeptide comprising culturing a host cell transfected with a DNA sequence comprising a nucleotide sequence encoding PACE SEQ ID NO: 1 operatively linked to a heterologous expression control sequence permitting expression of the nucleotide sequence and a DNA sequence comprising a nucleotide sequence encoding the precursor of a desired protein, operably linked to a heterologous expression control sequence permitting expression of the nucleotide sequence.
- 2. The method according to claim 1 wherein said PACE DNA sequence SEQ ID NO: 1 is present on one vector and said precursor DNA sequence is present on a second vector.
- 3. The method according to claim 1 wherein said PACE DNA SEQ ID NO: 1 and said precursor DNA are present on a single vector.
- 4. The method according to claim 1 wherein said precursor is a precursor polypeptide of a protein requiring γ-carboxylation for biological activity.

- 5. The method according to claim 1 wherein said precursor is a precursor polypeptide of a blood coagulation protein.
- 6. The method according to claim 5 wherein said protein is selected from the group consisting of Factor IX, Protein C, Protein S, Prothrombin Factor 10, Factor VII and bone gamma-carboxyglutamate protein.
- 7. The method according to claim 5 wherein said protein is Factor IX.
- 8. The method according to claim 1 where in said host cell is a eukaryotic cell.
- 9. The method according to claim 8 wherein said host cell is a mammalian cell.
- 10. The method according to claim 9 wherein said host cell is a Chinese Hamster Ovary cell.
- 11. A host cell transfected with a DNA sequence comprising a nucleotide sequence encoding PACE SEQ ID NO: 1 operatively linked to a heterologous expression control sequence permitting expression of the

nucleotide sequence and a DNA sequence comprising a nucleotide sequence encoding the precursor of a desired protein operatively linked to a heterologous expression control sequence permitting expression of the nucleotide sequence.

- 12. The cell according to claim 11 wherein said precursor is a precursor of a protein which requires gamma-carboxylation for biological activity.
- 13. The cell according to claim 12 wherein said precursor is a precursor polypeptide of a blood coagulation protein.
- 14. The cell according to claim 13 wherein said protein is selected from the group consisting of Factor IX, Protein C, Protein S, Prothrombin Factor 10, Factor VII and bone gamma-carboxyglutamate protein.
- 15. The cell according to claim 13 wherein said protein is Factor IX.
- 16. The cell according to claim 11 which is a eukaryotic cell.
- 17. The cell according to claim 16 which is a mammalian cell.

- 18. The cell according to claim 17 which is a Chinese Hamster Ovary cell.
- DNA sequence comprising a nucleotide sequence encoding PACE SEQ ID NO: 1 operatively linked to a heterologous expression control sequence permitting expression of the nucleotide sequence and a DNA sequence comprising a nucleotide sequence encoding the precursor of a desired protein operatively linked to a heterologous expression control sequence permitting expression of the nucleotide sequence.
- 20. The molecule according to claim 19 wherein said precursor is a precursor polypeptide of a protein requiring γ -carboxylation for biological activity.
- 21. The molecule according to claim 20 wherein said precursor is a precursor polypeptide of a blood coagulation protein.
- 22. The molecule according to claim 21 wherein said protein is selected from the group consisting of Factor IX, Protein C, Protein S, Prothrombin Factor 10, Factor VII and bone gamma-carboxyglutamate protein.

23. The molecule according to claim 22 wherein said protein is Factor IX.

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